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1 [The adaptive web: Adaptive interfaces for ubiquitous web access](#)

Daniel Billsus, Clifford A. Brunk, Craig Evans, Brian Gladish, Michael Pazzani

May 2002 **Communications of the ACM**, Volume 45 Issue 5
 Full text available: [pdf\(160.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)
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Allowing mobile users to access any information at any time from any location.

2 [Energy-efficient computing for wildlife tracking: design tradeoffs and early experiences with ZebraNet](#)
Philo Juang, Hidekazu Oki, Yong Wang, Margaret Martonosi, Li Shiuan Peh, Daniel Rubenstein
October 2002 **Tenth international conference on architectural support for programming languages and operating systems on Proceedings of the 10th international conference on architectural support for programming languages and operating systems (ASPLOS-X)**, Volume 37 , 30 , 36 Issue 10 , 5 , 5Full text available: [pdf\(1.51 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Over the past decade, mobile computing and wireless communication have become increasingly important drivers of many new computing applications. The field of wireless sensor networks particularly focuses on applications involving autonomous use of compute, sensing, and wireless communication devices for both scientific and commercial purposes. This paper examines the research decisions and design tradeoffs that arise when applying wireless peer-to-peer networking techniques in a mobile sensor ne ...

3 [Systems Issues: Robotics-based location sensing using wireless ethernet](#)
Andrew M. Ladd, Kostas E. Bekris, Algis Rudys, Lydia E. Kavraki, Dan S. Wallach, Guillaume Marceau
September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking**

Full text available: [pdf\(235.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A key subproblem in the construction of location-aware systems is the determination of the position of a mobile device. This paper describes the design, implementation and analysis of a system for determining position inside a building from measured RF signal strengths of packets on an IEEE 802.11b wireless Ethernet network. Previous approaches to location awareness with RF signals have been severely hampered by non-linearity, noise and complex correlations due to multi-path effects, interferenc ...

Keywords: 802.11, localization, mobile systems, probabilistic analysis, wireless networks

4 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: [pdf\(613.63 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
[html\(2.78 KB\)](#)

5 Location management for mobile commerce applications in wireless Internet environment

Upkar Varshney

August 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 3

Full text available: [pdf\(630.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With recent advances in devices, middleware, applications and networking infrastructure, the wireless Internet is becoming a reality. We believe that some of the major drivers of the wireless Internet will be emerging mobile applications such as mobile commerce. Although many of these are futuristic, some applications including user-and location-specific mobile advertising, location-based services, and mobile financial services are beginning to be commercialized. Mobile commerce applications pre ...

Keywords: Mobile commerce, infrastructure dependability, location management, mobile applications, satellites, wireless Internet, wireless LANs, wireless multicast

6 Technical Session: Blackberries in support of technology

Susan T. Dunnivant

October 2001 **Proceedings of the 29th annual ACM SIGUCCS conference on User services**

Full text available: [pdf\(210.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interactive paging devices known as Blackberries were evaluated by student and professional support staff of Furman University as a part of a longer range evaluation of the technology for future campus-wide implementation. The immediate and robust but low impact communication potential between field staff and systems administrators offered a level of troubleshooting collaboration not possible with other technologies or communication

strategies. The costs, benefits and outcomes of the six-month t ...

Keywords: blackberries, interactive paging, staff collaboration, student technical staff, technicals support, wireless communication devices

7 Research track: Indexing multi-dimensional time-series with support for multiple distance measures

Michail Vlachos, Marios Hadjileftheriou, Dimitrios Gunopulos, Eamonn Keogh

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available:  [pdf\(906.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Although most time-series data mining research has concentrated on providing solutions for a single distance function, in this work we motivate the need for a single index structure that can support multiple distance measures. Our specific area of interest is the efficient retrieval and analysis of trajectory similarities. Trajectory datasets are very common in environmental applications, mobility experiments, video surveillance and are especially important for the discovery of certain biologica ...

Keywords: dynamic time warping, longest common subsequence, trajectories

8 Session E: Interaction in mixed realities: Interacting with reflections in virtual environments

James Lane, Vali Lalioti

November 2001 **Proceedings of the 1st international conference on Computer graphics, virtual reality and visualisation**

Full text available:  [pdf\(632.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Immersive virtual environments require input devices that complement and bolster natural interaction with the virtual content. Such an input device, in addition to it needing to be wireless, should be able to affect multiple degrees of freedom. Computer vision presents a means of creating such a device. However conventional computer vision solutions to 3D tend to be complicated and expensive or inaccurate. We present a single camera approach, "Reflections", which presents a simple and inexpensiv ...

Keywords: Camera calibration, Input devices, Input/Output Devices, Scene Analysis, Virtual reality

9 Deployment and testbeds: Enhancing location privacy in wireless LAN through disposable interface identifiers: a quantitative analysis

Marco Gruteser, Dirk Grunwald

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots**

Full text available:  [pdf\(410.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The recent proliferation of wireless local area networks (WLAN) has introduced new *location* privacy risks. An adversary controlling several access points could triangulate a client's position. In addition, interface identifiers uniquely identify each client, allowing tracking of location over time. We enhance location privacy through frequent disposal of a client's interface identifier. The described system curbs the adversary's ability to continuously track a client's position. Design ch ...

Keywords: interface identifiers, location privacy, wireless LAN

10 Composable ad-hoc mobile services for universal interaction

Todd D. Hodes, Randy H. Katz, Edouard Servan-Schreiber, Lawrence Rowe

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available:  [pdf\(1.86 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Research challenges in wireless networks of biomedical sensors

Loren Schwiebert, Sandeep K.S. Gupta, Jennifer Weinmann

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

Full text available:  [pdf\(612.60 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Implanted biomedical devices have the potential to revolutionize medicine. *Smart sensors*, which are created by combining sensing materials with integrated circuitry, are being considered for several biomedical applications such as a glucose level monitor or a retina prosthesis. These devices require the capability to communicate with an external computer system (base station) via a wireless interface. The limited power and computational capabilities of smart sensor based biological imp ...

12 Self-configuring localization systems: Design and Experimental Evaluation

Nirupama Bulusu, John Heidemann, Deborah Estrin, Tommy Tran

February 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 1

Full text available:  [pdf\(261.39 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Embedded networked sensors promise to revolutionize the way we interact with our physical environment and require scalable, ad hoc deployable and energy-efficient node localization/positioning. This paper describes the motivation, design, implementation, and experimental evaluation (on sharply resource-constrained devices) of a *self-configuring* localization system using radio beacons. We identify beacon *density* as an important parameter in determining localization quality, which sat ...

Keywords: Location, localization, self-configuration, sensor networks

13 Contributed articles on online, interactive, and anytime data mining: MobiMine: monitoring the stock market from a PDA

Hillol Kargupta, Byung-Hoon Park, Sweta Pittie, Lei Liu, Deepali Kushraj, Kakali Sarkar
January 2002 **ACM SIGKDD Explorations Newsletter**, Volume 3 Issue 2

Full text available:  [pdf\(1.16 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper describes an experimental mobile data mining system that allows intelligent monitoring of time-critical financial data from a hand-held PDA. It presents the overall system architecture and the philosophy behind the design. It explores one particular aspect of the system---automated construction of personalized focus area that calls for user's attention. This module works using data mining techniques. The paper describes the data mining component of the system that employs a novel Four ...

14 Systems, platforms, and applications: Experimental evaluation of synchronization and topology control for in-building sensor network applications

W. Steven Conner, Jasmeet Chhabra, Mark Yarvis, Lakshman Krishnamurthy
September 2003 **Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications**

Full text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

While multi-hop networks consisting of 100s or 1000s of inexpensive embedded sensors are emerging as a means of mining data from the environment, inadequate network lifetime remains a major impediment to real-world deployment. This paper describes several applications deployed throughout our building that monitor conference room occupancy and environmental statistics and provide access to room reservation status. Because it is often infeasible to locate sensors and display devices near power outlets ...

Keywords: synchronization, topology control, wireless sensor networks

15 Composable ad hoc location-based services for heterogeneous mobile clients

Todd D. Hodes, Randy H. Katz
October 1999 **Wireless Networks**, Volume 5 Issue 5

Full text available:  [pdf\(403.18 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 Beyond the handset: designing for wireless communications usability

Leysia Palen, Marilyn Salzman
June 2002 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 9 Issue 2

Full text available:  [pdf\(225.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Service-based wireless devices like wireless telephones require users to interact with aspects of the technology beyond the hardware and software of the handset. By entering into contractual relationships with service-providers, and by using network-based services, users interact with a larger system---one that has social and technological components. The

operation of the wireless telephone requires the assimilation of heterogeneous sources of information from the device manufacturer, sal ...

Keywords: cell, field study, mobile, qualitative study, social construction of technology, socio-technical systems, usability, wireless telephones

17 Managing images: Geographic location tags on digital images

Kentaro Toyama, Ron Logan, Asta Roseway

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Full text available:  [pdf\(1.97 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe an end-to-end system that capitalizes on geographic location tags for digital photographs. The World Wide Media eXchange (WWMX) database indexes large collections of image media by several pieces of metadata including timestamp, owner, and critically, location stamp. The location where a photo was shot is important because it says much about its semantic content, while being relatively easy to acquire, index, and search. The process of building, browsing, and writing applications for ...

Keywords: GIS, digital photography, geographic interfaces, image databases

18 Technical opinion: Current and future applications of mobile and wireless networks

Rajeswari Malladi, Dharma P. Agrawal

October 2002 **Communications of the ACM**, Volume 45 Issue 10

Full text available:  [pdf\(80.48 KB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
[html\(28.29 KB\)](#)

Wireless and mobile networks are being used in diverse areas such as travel, education, stock trading, military, package delivery, disaster recovery, and medical emergency care.

19 LeZi-update: an information-theoretic approach to track mobile users in PCS networks

Amiya Bhattacharya, Sajal K. Das

August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking**

Full text available:  [pdf\(1.59 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 Posters: A wireless handheld multi-modal digital video library client system

Michael R. Lyu, Jerome Yen, Edward Yau, Sam Sze

November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval**

Full text available:  [pdf\(814.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We developed technologies for transmitting video contents over wireless platforms, and encapsulated these video delivery and presentation technologies into a client system for

accessing a multi-modal digital video library. The mobile access system, *iVIEW client*, provides a user interface that meets the challenge of rich multi-modal information presentation on wireless hand-held devices. An XML schema is employed to organize the multi-modal metadata for better data interoperability. Furthe ...

Keywords: XML, browser and interface on mobile devices, mobile applications, multi-modal content retrieval, multimedia information retrieval, multimedia management and support

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